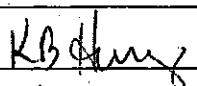
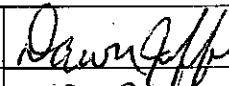
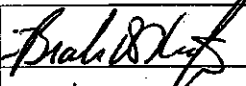


Facility Name: North River WWTF
 Owner: Harrisonburg - Rockingham Regional Sewer Authority
 Expiration Date: 8/31/11

County: Rockingham
 Permit #: VA00 60640
 Permit Writer: BOK/KBH

	Date
Reissuance Reminder Package Sent (START PP FILE, UPDATE CEDS)	9/9/10
Application Due	3/4/11
Email or Phone Call to Offer App. Assistance (One Month Prior to Application Due Date)	2/10/11
Application Received (UPDATE CEDS)	2/14/11
Warning Letter Sent (if necessary)	N/A
SCC Certification Proof (for PVOTWs with >50 residences)	N/A
Additional Information Requested	N/A
Additional Information Received	N/A
Verification that all annual permit maintenance fees have been paid	2/18/11
Application Considered Complete (Notify Applicant)	3/10/11
Application to VDH (if not sent by owner)	N/A
Comments Received from VDH	2/17/11
Application Reviewed by Planning - WQMP applicable? <input checked="" type="checkbox"/> YN	3/9/11
Application Reviewed by TMDL Program - Impaired? <input checked="" type="checkbox"/> YN	3/10/11
Application Reviewed by TMP Program - TMP necessary? <input checked="" type="checkbox"/> YN	3/10/11
Flow Frequency Requested	8/11/10
Flow Frequency Received	8/23/10
Site Inspection	8/12/10
Site Inspection Report	8/23/10
SIGNIFICANT CHANGES: Notify Local Government of Receipt of Application	N/A
SIGNIFICANT CHANGES: Contact Commissioner of Revenue for Riparian/Adjacent Property Owners	N/A
List of Riparian/Adjacent Property Owners Received	N/A
SIGNIFICANT CHANGES: Notify Riparian/Adjacent Property Owners of Receipt of Application	N/A
SIGNIFICANT CHANGES/ON T&E List: Notify DGIF and/or DCR	3/4/11
Comments Received from DGIF	3/4/11
Comments Received from DCR	3/31/11
Draft Permit & Fact Sheet Prepared	6/15/11
Draft Permit & Fact Sheet To Peer Review	6/15/11
Draft Permit & Fact Sheet to BDK for review	N/A
Draft Permit & Fact Sheet to Planning, Pretreatment, & Inspectors for review	7/27/11
Planning Comments Received	7/28/11
Pretreatment Comments Received	8/3/11
Inspectors Comments Received	8/3/11
Draft Permit, Fact Sheet, & Public Notice Information to Owner	6/17/11
Draft Permit & Fact Sheet Concurrence Received from Owner (within 14 days)	7/15/11
MINORS WITH TMDL EFFLUENT LIMIT & ALL MAJORS: Application, DP, FS, & Checklist to EPA	7/27/11
EPA Comments Received	None received
Public Notice to Newspaper (Electronic copy of Public Notice to Deborah Hawkins-CO)	7/18/11
Public Notice to Local Government, PDCs, & etc.	7/18/11
Newspaper Contacted to Verify Public Notice Receipt & Publication	7/19/11
First Public Notice Date	7/20/11
Verification from Newspaper	7/28/11
Public Notice Period Complete (Add Public Notice dates to Fact Sheet)	8/19/11
Enter All Applicable Information into CEDS (Events, Special Conditions, Billing Info, & etc.)	8/09/11
Enter Signature & Other Applicable Dates into CEDS (After signed)	

Concurrences

Signature					
Date	8-9-11	8-9-11	8/29/11		



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

Douglas W. Domenech
Secretary of Natural Resources

4411 Early Road, P.O. Box 3000, Harrisonburg, Virginia 22801

(540) 574-7800 Fax (540) 574-7878

www.deq.virginia.gov

David K. Paylor
Director

Amy Thatcher Owens
Regional Director

August 29, 2011

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Ms. Sharon Foley
Harrisonburg-Rockingham County Regional Sewer Authority
P.O. Box 8
Mt. Crawford, VA 22841

Re: Reissuance, VPDES Permit No. VA0060640, North River WWTF

Dear Ms. Foley:

The enclosed permit has been approved. This permit action involved reissuing an existing permit to discharge treated wastewater. In accordance with the permit, you are required to submit Discharge Monitoring Reports (DMRs) by the tenth of each month to:

Virginia Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

The reporting form is included with the permit. You will be responsible for obtaining additional copies of the DMR. The first DMR for the month ending September 30, 2011 is due by October 10, 2011. Please refer to Guidance Memo 06-2016, available from the following web site, for instructions on completing your DMR: <http://www.deq.virginia.gov/waterguidance/permits.html>.

DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program please visit the following website for details: <http://www.deq.virginia.gov/water/edmrfaq.html>.

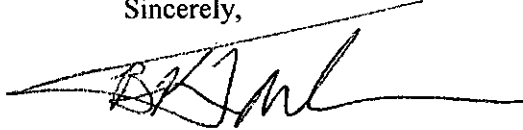
As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

Please note that compliance with the permit's requirements for use and disposal of sewage sludge does not relieve you of your responsibility to comply with federal requirements set forth in 40 CFR Part 503. Until DEQ seeks and is granted authority to administer the Part 503 regulations by EPA, treatment works treating domestic sewage should continue to work directly with EPA to comply with these regulations. For more information, you can call the EPA Region III office in Philadelphia at 215-814-5735.

If you have questions about this permit, please do not hesitate to contact Brandon Kiracofe at (540) 574-7892 or brandon.kiracofe@deq.virginia.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Keith Fowler', is written over a horizontal line.

B. Keith Fowler
Deputy Regional Director

Enclosure: Permit No. VA0060640
cc: EPA, Region III – 3WP12 (electronic)
L. Ferguson-Davie – VRO
FileNet – VA0060640

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Reissuance of VPDES Permit No. VA0060640, North River WWTF

TO: Deputy Regional Director

FROM: Regional Water Permits Manager *Brady A. Kirk*

DATE: August 29, 2011

COPIES: VRO Permit Processing File

Other Agency Comments: See Item 27 of the Fact Sheet for DCR comments on the draft permit.

No other agency comments were received.

Public Notice Comments: No comments were received.

Staff Comments: None



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0060640

Effective Date: September 1, 2011

Expiration Date: August 31, 2016

**AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

AND


THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

Owner: **Harrisonburg-Rockingham Regional Sewer Authority**
Facility Name: **North River WWTF**
County: **Rockingham**
Facility Location: **856 North River Road, Mount Crawford**

The owner is authorized to discharge to the following receiving stream:

Stream: **North River**
River Basin: **Potomac**
River Subbasin: **Shenandoah**
Section: **5**
Class: **IV**
Special Standards: **pH**



Amy T. Owens, Regional Director
Valley Regional Office

August 29, 2011

Date

Permit Required Special Condition Due Dates*

Facility Name: North River WWTF	Permit No.: VA0060640
--	------------------------------

Special Condition	Due Date
Submit 2nd Quarterly Acute Toxicity Test	1/10/2012
Submit 2nd Quarterly Chronic Toxicity Test	1/10/2012
Submit 1st Year Pretreatment Annual Report	1/31/2012
Submit Significant Discharger Waste Survey	2/28/2012
Submit 1st Year Public Notice for SIUs in SNC	3/31/2012
Submit 3rd Quarterly Acute Toxicity Test	4/10/2012
Submit 3rd Quarterly Chronic Toxicity Test	4/10/2012
Submit 4th Quarterly Acute Toxicity Test	7/10/2012
Submit 4th Quarterly Chronic Toxicity Test	7/10/2012
Submit Reevaluation of Pretreatment Local Limits	9/1/2012
Submit 2nd Year Pretreatment Annual Report	1/31/2013
Submit 2nd Year Public Notice for SIUs in SNC	3/31/2013
Submit 1st Annual Acute Toxicity Test	1/10/2014
Submit 1st Annual Chronic Toxicity Test	1/10/2014
Submit 3rd Year Pretreatment Annual Report	1/31/2014
Submit 3rd Year Public Notice for SIUs in SNC	3/31/2014
Submit 2nd Annual Acute Toxicity Test	1/10/2015
Submit 2nd Annual Chronic Toxicity Test	1/10/2015
Submit 4th Year Pretreatment Annual Report	1/31/2015
Submit 4th Year Public Notice for SIUs in SNC	3/31/2015
Submit 3rd Annual Acute Toxicity Test	1/10/2016
Submit 3rd Annual Chronic Toxicity Test	1/10/2016
Submit 5th Year Pretreatment Annual Report	1/31/2016
Submit VPDES Permit Application	3/4/2016
Submit 5th Year Public Notice for SIUs in SNC	3/31/2016
Submit 4th Annual Acute Toxicity Test	7/10/2016
Submit 4th Annual Chronic Toxicity Test	7/10/2016

*This list is intended to assist the permittee; however, it is not intended to supersede any permit requirements.

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME North River WWTF
ADDRESS PO Box 8
Mount Crawford VA 22841
FACILITY LOCATION 856 N River Rd

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

VA0060640			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

Municipal Major 08/11/2011

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*****	*****	*****				
	REQRMNT	22	NL	MGD	*****	*****	*****			CONT	TIRE
002 PH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		6.5	*****	9.5	SU		1/DAY	GRAB
004 TSS	REPORTD				*****						
	REQRMNT	2500	3700	KG/D	*****	30	45	MG/L		1/M	24HC
007 DO	REPORTD	*****	*****			*****	*****				
	REQRMNT	*****	*****		6.5	*****	*****	MG/L		1/DAY	GRAB
120 E.COLI	REPORTD	*****	*****		*****		*****				
	REQRMNT	*****	*****		*****	126	*****	N/CML		4/M	GRAB
157 CL2, TOTAL CONTACT	REPORTD	*****	*****			*****	*****				
	REQRMNT	*****	*****		1.0	*****	*****	MG/L	36	1/2H	GRAB
165 CL2, INST RES MAX	REPORTD	*****	*****		*****						
	REQRMNT	*****	*****		*****	0.011	0.012	MG/L		1/2H	GRAB
213 CL2, INST TECH MIN LIMIT	REPORTD	*****	*****			*****	*****				
	REQRMNT	*****	*****		0.6	*****	*****	MG/L		1/2H	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Submit daily operator log with DMR.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME North River WWTF
ADDRESS PO Box 8
Mount Crawford VA 22841
FACILITY
LOCATION 856 N River Rd

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

VA0060640			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

Municipal Major 08/11/2011

**DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)**

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
352 AMMONIA, AS N JAN-MAY	REPORTD	*****	*****		*****						
	REQRMNT	*****	*****		*****	6.4	7.9	MG/L		1/DAY	24HC
353 AMMONIA, AS N JUN-DEC	REPORTD	*****	*****		*****						
	REQRMNT	*****	*****		*****	3.3	4.1	MG/L		1/DAY	24HC
423 CBOD5, JAN-MAY	REPORTD				*****						
	REQRMNT	700	1000	KG/D	*****	8	12	MG/L		1/DAY	24HC
424 CBOD5, JUN-DEC	REPORTD				*****						
	REQRMNT	800	1200	KG/D	*****	10	15	MG/L		1/DAY	24HC
430 TKN, JUN-DEC	REPORTD				*****						
	REQRMNT	420	620	KG/D	*****	5.0	7.5	MG/L		1/W	24HC
452 TKN, JAN-MAY	REPORTD				*****						
	REQRMNT	770	1200	KG/D	*****	9.3	14	MG/L		1/W	24HC
792 NITROGEN, TOTAL (AS N) (CALENDAR YEAR)	REPORTD	*****	*****		*****		*****				
	REQRMNT	*****	*****		*****	3.8	*****	MG/L		1/YR	CALC
794 PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)	REPORTD	*****	*****		*****		*****				
	REQRMNT	*****	*****		*****	0.28	*****	MG/L		1/YR	CALC

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Submit daily operator log with DMR.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
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				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME North River WWT
ADDRESS PO Box 8
Mount Crawford VA 22841
FACILITY
LOCATION 856 N River Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0060640			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

Municipal Major 08/11/2011

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg VA 22801

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
805 NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)	REPORTD	*****	*****		*****		*****				
	REQRMNT	*****	*****		*****	NL	*****	MG/L		1/M	CALC
806 PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)	REPORTD	*****	*****		*****		*****				
	REQRMNT	*****	*****		*****	NL	*****	MG/L		1/M	CALC
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Submit daily operator log with DMR.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
 $\text{KG/DAY} = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3.785$ $\text{G/D (Grams/Day)} = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3785$
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, or until the issuance of a Certificate to Operate (CTO) for the 28 MGD facility, whichever occurs first, the permittee is authorized to discharge from Outfall 001.

This discharge shall be limited and monitored as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>			
	<u>Monthly Average</u>		<u>Weekly Average</u>		<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD) ^a	NL		NA		NA	NL	Continuous	TIRE
pH (standard units)	NA		NA		6.5	9.5	1/Day	Grab
CBOD ₅ (Jun-Dec) ^c	10 mg/L	800 kg/d	15 mg/L	1200 kg/d	NA	NA	1/Day	24 HC
CBOD ₅ (Jan-May) ^c	8 mg/L	700 kg/d	12 mg/L	1000 kg/d	NA	NA	1/Day	24 HC
Total Kjeldahl Nitrogen (as N)(Jun-Dec) ^c	5.0 mg/L	420 kg/d	7.5 mg/L	620 kg/d	NA	NA	1/Week	24 HC
Total Kjeldahl Nitrogen (as N)(Jan-May) ^c	9.3 mg/L	770 kg/d	14 mg/L	1200 kg/d	NA	NA	1/Week	24 HC
Suspended Solids ^{c,d}	30 mg/L	2500 kg/d	45 mg/L	3700 kg/d	NA	NA	1/Month	24 HC
E. coli (N/100 mL) ^b	126 Geometric Mean		NA		NA	NA	4/Month 10 a.m. to 4 p.m.	Grab
Total Residual Chlorine (TRC)(mg/L) ^{b,c}	0.011		0.012		NA	NA	1/2 Hours	Grab
Dissolved Oxygen (mg/L)	NA		NA		6.5	NA	1/Day	Grab
Ammonia-N (Jun-Dec)(mg/L) ^c	3.3		4.1		NA	NA	1/Day	24 HC
Ammonia-N (Jan-May)(mg/L) ^c	6.4		7.9		NA	NA	1/Day	24 HC
Total Phosphorus – Year to Date (mg/L) ^c	NL		NA		NA	NA	1/Month	Calculated
Total Phosphorus – Calendar Year (mg/L) ^c	0.28		NA		NA	NA	1/Year	Calculated
Total Nitrogen – Year to Date (mg/L) ^c	NL		NA		NA	NA	1/Month	Calculated
Total Nitrogen – Calendar Year (mg/L) ^c	3.8		NA		NA	NA	1/Year	Calculated

NL = No Limitation, monitoring required NA = Not Applicable TIRE = Totalizing, Indicating, and Recording Equipment
1/Year = Annual sampling with the results submitted with the DMR due January 10th of each year
4/Month = 4 samples taken weekly during the calendar month

24 HC = 24-Hour Composite

- The design flow of this treatment facility is 22 MGD. See Part I.G.1. for additional requirements related to facility flows.
- See Part I.B. for disinfection requirements.
- See Part I.C. for additional monitoring and reporting instructions.
- At least 85% removal for TSS must be attained for this discharge.
- In addition to any Total Nitrogen or Total Phosphorus concentration limits (or monitoring requirements without associated limits) listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN010042, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.
- There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the issuance of a CTO for the 28 MGD facility and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 001.

This discharge shall be limited and monitored as specified below:

	<u>EFFLUENT CHARACTERISTICS</u>		<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	Monthly Average		Weekly Average		Minimum	Maximum	Frequency	Sample Type
Flow (MGD) ^a	NL		NA		NA	NL	Continuous	TIRE
pH (standard units)	NA		NA		6.5	9.5	1/Day	Grab
CBOD ₅ (Jun-Dec) ^c	8 mg/L	800 kg/d	12 mg/L	1300 kg/d	NA	NA	1/Day	24 HC
CBOD ₅ (Jan-May) ^c	7 mg/L	700 kg/d	10 mg/L	1060 kg/d	NA	NA	1/Day	24 HC
Total Kjeldahl Nitrogen (as N)(Jun-Dec) ^c	4.0 mg/L	420 kg/d	6.0 mg/L	640 kg/d	NA	NA	1/Week	24 HC
Total Kjeldahl Nitrogen (as N)(Jan-May) ^c	8.0 mg/L	850 kg/d	12 mg/L	1300 kg/d	NA	NA	1/Week	24 HC
Suspended Solids ^{c,d}	30 mg/L	3200 kg/d	45 mg/L	4800 kg/d	NA	NA	1/Month	24 HC
E. coli (N/100 mL) ^b	126						4/Month	
	Geometric Mean		NA		NA	NA	10 a.m. to 4 p.m.	Grab
Total Residual Chlorine (TRC)(mg/L) ^{b,c}	0.010		0.011		NA	NA	1/2 Hours	Grab
Dissolved Oxygen (mg/L)	NA		NA		6.5	NA	1/Day	Grab
Ammonia-N (Jun-Dec)(mg/L) ^c	3.1		3.8		NA	NA	1/Day	24 HC
Ammonia-N (Jan-May)(mg/L) ^c	5.8		7.1		NA	NA	1/Day	24 HC
Total Phosphorus – Year to Date (mg/L) ^c	NL		NA		NA	NA	1/Month	Calculated
Total Phosphorus – Calendar Year (mg/L) ^c	0.22		NA		NA	NA	1/Year	Calculated
Total Nitrogen – Year to Date (mg/L) ^c	NL		NA		NA	NA	1/Month	Calculated
Total Nitrogen – Calendar Year (mg/L) ^c	3.0		NA		NA	NA	1/Year	Calculated

NL = No Limitation, monitoring required NA = Not Applicable TIRE = Totalizing, Indicating, and Recording Equipment

1/Year = Annual sampling with the results submitted with the DMR due January 10th of each year

4/Month = 4 samples taken weekly during the calendar month

24 HC = 24-Hour Composite

- The design flow of this treatment facility is 28 MGD. See Part I.G.1. for additional requirements related to facility flows.
- See Part I.B. for disinfection requirements.
- See Part I.C. for additional monitoring and reporting instructions.
- At least 85% removal for TSS must be attained for this discharge.
- In addition to any Total Nitrogen or Total Phosphorus concentration limits (or monitoring requirements without associated limits) listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN010042, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.
- There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. ADDITIONAL TRC AND E. COLI LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee shall monitor the TRC at the outlet of either chlorine contact tank #1 or #2, if those contact tanks are operating, prior to dechlorination, once every two hours by grab sample.
2. The permittee shall monitor the TRC at the outlet of either chlorine contact tank #3 or #4, if those contact tanks are operating, prior to dechlorination, once every two hours by grab sample.
3. No more than 36 samples for TRC taken after either chlorine contact tank #1 or #2, prior to dechlorination, shall be less than 1.0 mg/L for any one calendar month.
4. No more than 36 samples for TRC taken after either chlorine contact tank #3 or #4, prior to dechlorination, shall be less than 1.0 mg/L for any one calendar month.
5. No TRC sample collected at the outlet of any of the chlorine contact tanks, prior to dechlorination, shall be less than 0.6 mg/L unless the E. coli in the final effluent is also less than 126 N/100 mL. When the TRC concentration after any of the chlorine contact tanks and prior to dechlorination is less than 0.6 mg/L, an E. coli sample of the final effluent may be taken within 15 minutes after obtaining the TRC result. If the E. coli sample is less than 126 N/100 mL, then the original TRC sample shall not be reported as one of the allowable excursions identified in Part I.B.3. or Part I.B.4.
6. If chlorine disinfection is not used, E. coli shall be limited and monitored by the permittee as specified below:

	<u>Discharge Limit</u>	<u>Monitoring Requirements</u>	
	<u>Monthly Average</u>	<u>Frequency</u>	<u>Sample Type</u>
E. coli (N/100 mL)	126 (Geometric Mean)	1/Day Between 10 a.m. and 4 p.m.	Grab

This E. coli requirement, if applicable, shall substitute for the TRC and E. coli requirements specified elsewhere in this permit.

C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - ADDITIONAL INSTRUCTIONS

1. Quantification Levels (QLs) shall be less than or equal to the following concentrations:

<u>Effluent Characteristic</u>	<u>QL</u>
CBOD ₅	5 mg/L
Suspended Solids	1.0 mg/L
Chlorine	0.10 mg/L
Ammonia-N	0.20 mg/L

2. Compliance Reporting Under Part I.A.

- a. Monthly Average – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.C.1. shall be determined as follows: All data below the test method QL shall be treated as zeros. All data equal to or above the test method QL shall be treated as reported. Arithmetic concentration and/or loading averages (as applicable) shall be calculated using all reported data for the month, including the defined zeros. These averages shall be reported on the Discharge Monitoring Report (DMR). If all data are less than the test method QL, then "<QL" shall be reported on the DMR for the concentration and/or loading values. Otherwise the average values shall be reported as calculated.

- b. Maximum Weekly Average – Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in Part I.C.1. shall be determined as follows: All data below the test method QL shall be treated as zeros. All data equal to or above the test method QL shall be treated as reported. Arithmetic concentration and/or loading averages (as applicable) shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week entirely contained within the reporting month. The maximum weekly concentration and/or loading averages thus determined shall be reported on the DMR. If all data are less than the test method QL, then “<QL” shall be reported on the DMR for both the concentration and/or loading values. Otherwise the average values shall be reported as calculated.
- c. Any single datum required shall be reported as “<QL” if it is less than the test method QL. Otherwise, the numerical value shall be reported.
- d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.
- e. Nutrient reporting calculations:

For each calendar month, the DMR shall show the calendar year-to-date average concentration (mg/L) calculated in accordance with the following formula:

$$AC_{avg}\text{-YTD} = (\sum_{(\text{Jan-current month})} MC_{avg}) \div (\# \text{ of months})$$

where:

$AC_{avg}\text{-YTD}$ = calendar year-to-date average concentration (mg/L)

MC_{avg} = monthly average concentration (mg/L) as reported on DMR

The Total Nitrogen (TN) and Total Phosphorus (TP) average concentrations (mg/L) for each calendar year (AC) shall be shown on the December DMR due January 10th of the following year. These values shall be calculated in accordance with the following formula:

$$AC_{avg} = (\sum_{(\text{Jan-Dec})} MC_{avg}) \div 12$$

where:

AC_{avg} = calendar year average concentration (mg/L)

MC_{avg} = monthly average concentration (mg/L) as reported on DMR

For TP, all daily concentration data below the quantification level (QL) for the analytical method used shall be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.

For TN, if none of the daily concentration data for the respective species (i.e., TKN, Nitrates/Nitrites) are equal to or above the QL for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data is above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

D. STP BYPASSES

The following outfall is hereby recognized in this permit as a bypass point:

<u>Name of Bypass Location</u>	<u>Outfall Number</u>	<u>Receiving Water</u>
Cascade Aeration Bypass	002	North River; Potomac Basin; Shenandoah Subbasin; Section 5; Class IV; Special Standard: pH

Outfall 002 is not authorized to discharge except as provided in Part II.U. of this permit and in accordance with the State Water Control Board's VPDES Permit Regulation. Upon initiating a discharge from this outfall and for the duration of the bypass, all monitoring requirements that apply to Outfall 001 in Part I.A. shall also apply to Outfall 002.

In addition to the reporting requirements in Part II.U., each month the permittee is required to report the date of each bypass occurrence, the duration of each bypass occurrence, the amount of wastewater discharged during each occurrence, and all other monitoring specified above for the bypass. This information shall be reported each month with the DMR.

E. PRETREATMENT PROGRAM REQUIREMENTS

1. The permittee's pretreatment program has been approved. The program is an enforceable part of this permit. The permittee shall:
 - a. Implement a pretreatment program that complies with the Clean Water Act, Water Control Law, State regulations and the approved program.
 - b. Submit to the DEQ-Valley Regional Office, an annual report that describes the permittee's program activities over the previous year. The annual report shall be submitted no later than January 31st of each year and shall include:
 - (1) An updated list of the Significant Industrial Users* to the treatment works showing the categorical standards and local limits applicable to each;
 - (2) A summary of the compliance status of each Significant Industrial User with pretreatment standards and permit requirements;
 - (3) A summary of the number and types of Significant Industrial User sampling and inspections performed by the POTW;
 - (4) All information concerning any interference, upset, VPDES permit or Water Quality Standards violations directly attributable to Significant Industrial Users and enforcement actions taken to alleviate said events;
 - (5) A description of all enforcement actions taken against Significant Industrial Users over the previous 12 months;
 - (6) A summary of any changes to the submitted pretreatment program that have not been previously reported to the DEQ-Valley Regional Office;
 - (7) A summary of the permits issued to Significant Industrial Users since the last annual report;
 - (8) POTW and self-monitoring results for Significant Industrial Users determined to be in significant non-compliance during the reporting period;
 - (9) Results of the POTW's influent/effluent/sludge sampling, not previously submitted to DEQ;
 - (10) Copies of newspaper publications of all Significant Industrial Users in significant non-compliance during the reporting period. This is due no later than March 31st of each year; and
 - (11) Signature of an authorized representative.

- c. Within 180 days of the effective date of this permit, submit to the DEQ-Valley Regional Office a survey of all Industrial Users discharging to the POTW. The information shall be submitted to the POTW on the DEQ's Discharger Survey Form or an equivalent form that includes the quantity and quality of the wastewater. Survey results shall include the identification of significant industrial users of the POTW.

In lieu of the survey, the permittee may elect to develop, submit for approval and implement a plan to continuously survey the industrial community in their jurisdiction.

- d. Submit any changes to the approved pretreatment program to the DEQ-Valley Regional Office and obtain approval before implementation of the changes.
 - e. Ensure all Significant Industrial Users' permits are issued and reissued in a timely manner and that the Significant Industrial User permits issued by the POTW are effective and enforceable.
 - f. Inspect and sample all Significant Industrial Users at a minimum of once a year.
 - (1) Sampling shall include all regulated parameters, and shall be representative of the wastewater discharged.
 - (2) Inspection of the Significant Industrial Users shall cover all areas which could result in wastewater discharge to the treatment works including manufacturing, chemical storage, pretreatment facilities, spill prevention and control procedures, hazardous waste generation and Significant Industrial User's self-monitoring and records.
 - g. Implement the reporting requirements of Part VII of the VPDES Permit Regulation.
 - h. Review the Enforcement Response Plan (ERP) and ensure it meets state and federal regulatory requirements. The approved ERP is an enforceable part of this permit and shall be implemented.
 - i. Develop local limits or reevaluate local limits using current influent, effluent and sludge monitoring data and submit the data and results of the evaluation to the DEQ-Valley Regional Office within one year of the effective date of this permit. All Significant Industrial Users shall be sampled at the end of any categorical process and at the entrance to the treatment works.
 - j. Ensure that adequate resources are available to implement the approved program.
 - k. Meet all public participation requirements and annually public notice Significant Industrial Users in significant non-compliance with pretreatment standards and requirements for the previous 12 months.
2. The DEQ may require the POTW to institute changes to its pretreatment program:
- a. If the approved program is not implemented in a way satisfying the requirements of the Clean Water Act, Water Control Law or State regulations;
 - b. If problems such as pass-through, interference, water quality standards violations or sludge contamination develop or continue; or
 - c. If federal, state or local requirements change.
- * A Significant Industrial User is one that:
- (a) Has a process wastewater** flow of 25,000 gallons or more per average work day;
 - (b) Contributes a process wastestream which makes up 5% or more of the average dry weather hydraulic or organic capacity of the POTW;
 - (c) Is subject to the categorical pretreatment standards; or
 - (d) Has significant impact, either singularly or in combination with other Significant Dischargers, on the treatment works or the quality of its effluent.
- ** Process wastewater excludes sanitary wastewater, noncontact cooling water and boiler blowdown.

F. WHOLE EFFLUENT TOXICITY (WET) REQUIREMENTS

1. Biological Monitoring – 22 MGD Flow Tier

- a. In accordance with the schedule in Part I.F.1.d., the permittee shall conduct quarterly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent collected from Outfall 001.

The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia* and a 48-Hour Static Acute test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, with a minimum of 4 replicates per dilution and a minimum of 5 organisms per replicate for calculation of a valid No Observed Adverse Effect Concentration (NOAEC). Express the results as acute Toxicity Units (TU_a) by dividing $100/NOAEC$. The LC_{50} should also be determined, noted, and submitted in the required test report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and a Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be started within 30 days of the original sample. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as chronic Toxicity Units (TU_c) by dividing $100/NOEC$. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25} , if calculable, with the NOECs in the required test report.

During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- b. The test dilutions shall be able to determine compliance with the following endpoints:
- (1) Acute NOAEC of 100%, equivalent to 1.0 TU_a
 - (2) Chronic NOEC of 100%, equivalent to 1.0 TU_c
- c. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of Part I.F.1.a. may be discontinued. If the data indicate that no limit is needed, the permittee shall continue acute and chronic toxicity testing (both species) of the outfall annually, as specified in Part I.F.1.d.
- d. The permittee shall supply 1 copy of the test report for the toxicity tests specified in Part I.F.1.a. in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
2nd Quarter	October 1, 2011 – December 31, 2011	January 10, 2012
3rd Quarter	January 1, 2012 – March 31, 2012	April 10, 2012
4th Quarter	April 1, 2012 – June 30, 2012	July 10, 2012
1st Annual	January 1, 2013 – December 31, 2013	January 10, 2014
2nd Annual	January 1, 2014 – December 31, 2014	January 10, 2015
3rd Annual	January 1, 2015 – December 31, 2015	January 10, 2016
4th Annual	January 1, 2016 – June 30, 2016	July 10, 2016

2. Biological Monitoring – 28 MGD Flow Tier

- a. In accordance with the schedule in Part I.F.2.d., and commencing within 6 months from the completion of construction of the expanded facility, the permittee shall conduct quarterly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent collected from Outfall 001.

The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia* and a 48-Hour Static Acute test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, with a minimum of 4 replicates per dilution and a minimum of 5 organisms per replicate for calculation of a valid No Observed Adverse Effect Concentration (NOAEC). Express the results as acute Toxicity Units (TU_a) by dividing $100/NOAEC$. The LC_{50} should also be determined, noted, and submitted in the required test report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and a Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be started within 30 days of the original sample. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as chronic Toxicity Units (TU_c) by dividing $100/NOEC$. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25} , if calculable, with the NOECs in the required test report.

During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- b. The test dilutions shall be able to determine compliance with the following endpoints:
- (1) Acute NOAEC of 100%, equivalent to $1.0 TU_a$
 - (2) Chronic NOEC of 100%, equivalent to $1.0 TU_c$
- c. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of Part I.F.2.a. may be discontinued. If the data indicate that no limit is needed, the permittee shall continue acute and chronic toxicity testing (both species) of the outfall annually, as specified in Part I.F.2.d.
- d. The permittee shall supply 1 copy of the test report for the toxicity tests specified in Part I.F.2.a. in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Quarter	The first full calendar quarter following the 6 month anniversary of the issuance of the CTO for the 28.0 MGD facility	By the 10th day of the first month of the calendar quarter following the testing period
Quarterly thereafter	Every quarter following the previous quarter until there are a minimum of 4 quarters tested	By the 10th day of the first month of the calendar quarter following the testing period
1st Annual	The first full calendar year following the 4 completed quarterly tests	By the 10th day of January following the testing period
Annually thereafter	Every calendar year following the 1st annual testing period	By the 10th day of January following the testing period

G. OTHER REQUIREMENTS AND SPECIAL CONDITIONS

1. 95% Capacity Reopener – A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to:

Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

when the monthly average flow influent to the wastewater treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ-Valley Regional Office no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. Indirect Dischargers – The permittee shall provide adequate notice to the DEQ-Valley Regional Office of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit.

Adequate notice shall include information on 1) the quality and quantity of effluent introduced into the treatment works, and 2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

3. Materials Handling/Storage – Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.
4. Operations and Maintenance (O&M) Manual Requirements – The permittee shall maintain a current and approved O&M Manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:
 - a. Treatment system design, treatment system operation, routine preventive maintenance of units within the treatment system, critical spare parts inventory and record keeping;
 - b. Techniques to be employed in the collection, preservation, and analysis of effluent samples (and sludge samples if sludge analyses are required);
 - c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.G.3 that will prevent these materials from reaching state waters; and
 - d. Procedures for documenting compliance with the permit requirement that there shall be no discharge of floating solids or visible foam in other than trace amounts.

The permittee shall operate the treatment works in accordance with the approved O&M Manual. Any changes in the practices and procedures followed by the permittee shall be documented and submitted for DEQ approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O&M Manual shall be deemed a violation of the permit.

5. Certificate to Construct (CTC) / Certificate to Operate (CTO) Requirement – The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9 VAC 25-790), obtain a CTC and a CTO prior to constructing and operating the wastewater treatment works. Noncompliance with the CTC or CTO shall be deemed a violation of the permit.
6. Sludge Management Plan (SMP) Requirement –
 - a. The permittee shall conduct all sewage sludge use or disposal activities in accordance with the SMP approved with the reissuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. This permit may be modified or, alternatively, revoked and reissued to incorporate limitations/conditions necessitated by substantive changes in sewage sludge use or disposal practices.
 - b. The permittee shall determine and retain the following information for five years:
 - (1) The concentration of each pollutant listed in Table 3 of 9 VAC 25-31-540;
 - (2) The following certification statement:

"I certify under, penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in 9 VAC 25-31-710 B and the vector attraction reduction requirement in [insert one of the vector attraction reduction requirements in 9 VAC 25-31-720 B 1 through B 10] was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.";
 - (3) A description of how the Class B pathogen requirements in 9 VAC 25-31-710 B are met; and
 - (4) A description of how one of the vector attraction reduction requirements in 9 VAC 25-31-720 B 1 through B 8 is met.
7. Licensed Operator Requirement – The permittee shall employ or contract at least one Class I licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the DEQ-Valley Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.
8. Reliability Class – The permitted treatment works shall meet Reliability Class I.
9. Water Quality Criteria Monitoring – The permittee shall monitor the effluent at Outfall 001 for the substances noted in Attachment A of this permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be performed within 1 year following issuance of the CTO for the 28 MGD facility. Using Attachment A as the reporting form, the data shall be submitted by the 10th of the following month. Monitoring and analyses shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Methods other than those specified in Attachment A may be used with prior notification to and approval from DEQ. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample

gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

10. Treatment Works Closure Plan – If the permittee plans an expansion or upgrade to replace the existing treatment works, or if the facility is permanently closed, the permittee shall submit to the DEQ-Valley Regional Office a closure plan for the existing treatment works. The plan shall address the following information as a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal/demolition/disposal of structures, equipment, piping and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ prior to implementation. The permittee may continue discharging until the effluent no longer meets the permit limits or the permit expires, whichever occurs first.
11. Reopeners – This permit may be modified or, alternatively, revoked and reissued:
 - a. If any approved waste load allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes waste load allocations, limits or conditions on the facility that are not consistent with the permit requirements; or
 - b. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade; or
 - c. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
 - (1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries; or
 - (2) a future water quality regulation or statute require new or alternative nutrient control; or
 - d. If any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.
12. The annual average concentration limitations for TN and/or TP are suspended during any calendar year in which the facility is considered by DEQ to be a participant in the Virginia Environmental Excellence Program in good standing at either the Exemplary Environmental Enterprise (E3) level or the Extraordinary Environmental Enterprise (E4) level, provided that the following conditions have also been met:
 - a. The facility has applied for (or renewed) participation, been accepted, maintained a record of sustained compliance and submitted an annual report according to the program guidelines;
 - b. The facility has demonstrated that they have in place a fully implemented environmental management system (EMS) with an alternative compliance method that includes operation of installed nutrient removal technologies to achieve the annual average concentration limitations; and
 - c. The E3/E4 designation from DEQ and implementation of the EMS has been in effect for the full calendar year.

The annual average concentration limitations for TN and/or TP, as applicable, are not suspended in any calendar year following a year in which the facility failed to achieve the annual average concentration limitations as required by Part I.G.12.b.

FACILITY NAME: North River WWTF
 ADDRESS: 856 North River Road
 Mount Crawford, VA 22841

Permit No. VA0060640
 Attachment A
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DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER QUALITY MONITORING

OUTFALL NO. 001 – 28 MGD

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	1100		G or C	1/5 YR
7440-38-2	Arsenic, dissolved	(3)	130		G or C	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	1.5		G or C	1/5 YR
16065-83-1	Chromium III, dissolved ⁽⁸⁾	(3)	96		G or C	1/5 YR
18540-29-9	Chromium VI, dissolved ⁽⁸⁾	(3)	8.7		G or C	1/5 YR
7440-50-8	Copper, dissolved	(3)	11		G or C	1/5 YR
7439-92-1	Lead, dissolved	(3)	22		G or C	1/5 YR
7439-97-6	Mercury, dissolved	(3)	1.0		G or C	1/5 YR
7440-02-0	Nickel, dissolved	(3)	27		G or C	1/5 YR
7782-49-2	Selenium, total recoverable	(3)	4.4		G or C	1/5 YR
7440-22-4	Silver, dissolved	(3)	4.5		G or C	1/5 YR
7440-28-0	Thallium, dissolved	(4)	(5)		G or C	1/5 YR
7440-66-6	Zinc, dissolved	(3)	98		G or C	1/5 YR
PESTICIDES/PCBS						
309-00-2	Aldrin	608	0.05		G or C	1/5 YR
57-74-9	Chlordane	608	0.2		G or C	1/5 YR
2921-88-2	Chlorpyrifos	622	(5)		G or C	1/5 YR
72-54-8	DDD	608	0.1		G or C	1/5 YR
72-55-9	DDE	608	0.1		G or C	1/5 YR
50-29-3	DDT	608	0.1		G or C	1/5 YR
8065-48-3	Demeton	(4)	(5)		G or C	1/5 YR
333-41-5	Diazinon	(4)	(5)		G or C	1/5 YR
60-57-1	Dieldrin	608	0.1		G or C	1/5 YR
959-98-8	Alpha-Endosulfan	608	0.1		G or C	1/5 YR
33213-65-9	Beta-Endosulfan	608	0.1		G or C	1/5 YR
1031-07-8	Endosulfan Sulfate	608	0.1		G or C	1/5 YR
72-20-8	Endrin	608	0.1		G or C	1/5 YR
7421-93-4	Endrin Aldehyde	(4)	(5)		G or C	1/5 YR
86-50-0	Guthion	622	(5)		G or C	1/5 YR
76-44-8	Heptachlor	608	0.05		G or C	1/5 YR
1024-57-3	Heptachlor Epoxide	(4)	(5)		G or C	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608	(5)		G or C	1/5 YR

FACILITY NAME: North River WWTF
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DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER QUALITY MONITORING

OUTFALL NO. 001 – 28 MGD

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
319-85-7	Hexachlorocyclohexane Beta-BHC	608	(5)		G or C	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC (synonym = Lindane)	608	(5)		G or C	1/5 YR
143-50-0	Kepone	(9)	(5)		G or C	1/5 YR
121-75-5	Malathion	(4)	(5)		G or C	1/5 YR
72-43-5	Methoxychlor	(4)	(5)		G or C	1/5 YR
2385-85-5	Mirex	(4)	(5)		G or C	1/5 YR
56-38-2	Parathion	(4)	(5)		G or C	1/5 YR
1336-36-3	PCB Total	608	7.0		G or C	1/5 YR
8001-35-2	Toxaphene	608	5.0		G or C	1/5 YR
60-10-5	Tributyltin	(4)	(5)		G or C	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	625	10.0		G or C	1/5 YR
120-12-7	Anthracene	625	10.0		G or C	1/5 YR
92-87-5	Benzidine	(4)	(5)		G or C	1/5 YR
56-55-3	Benzo (a) anthracene	625	10.0		G or C	1/5 YR
205-99-2	Benzo (b) fluoranthene	625	10.0		G or C	1/5 YR
207-08-9	Benzo (k) fluoranthene	625	10.0		G or C	1/5 YR
50-32-8	Benzo (a) pyrene	625	10.0		G or C	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	(4)	(5)		G or C	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	(4)	(5)		G or C	1/5 YR
117-81-7	Bis-2-Ethylhexyl Phthalate	625	10.0		G or C	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/5 YR
91-58-7	2-Chloronaphthalene	(4)	(5)		G or C	1/5 YR
218-01-9	Chrysene	625	10.0		G or C	1/5 YR
53-70-3	Dibenz(a,h)anthracene	625	20.0		G or C	1/5 YR
95-50-1	1,2-Dichlorobenzene	624	10.0		G or C	1/5 YR
541-73-1	1,3-Dichlorobenzene	624	10.0		G or C	1/5 YR
106-46-7	1,4-Dichlorobenzene	624	10.0		G or C	1/5 YR
91-94-1	3,3-Dichlorobenzidine	(4)	(5)		G or C	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/5 YR
131-11-3	Dimethyl phthalate	(4)	(5)		G or C	1/5 YR
84-74-2	Di-n-Butyl Phthalate	625	10.0		G or C	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/5 YR

DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER QUALITY MONITORING

OUTFALL NO. 001 – 28 MGD

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
122-66-7	1,2-Diphenylhydrazine	(4)	(5)		G or C	1/5 YR
206-44-0	Fluoranthene	625	10.0		G or C	1/5 YR
86-73-7	Fluorene	625	10.0		G or C	1/5 YR
118-74-1	Hexachlorobenzene	(4)	(5)		G or C	1/5 YR
87-68-3	Hexachlorobutadiene	(4)	(5)		G or C	1/5 YR
77-47-4	Hexachlorocyclopentadiene	(4)	(5)		G or C	1/5 YR
67-72-1	Hexachloroethane	(4)	(5)		G or C	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	625	20.0		G or C	1/5 YR
78-59-1	Isophorone	625	10.0		G or C	1/5 YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/5 YR
62-75-9	N-Nitrosodimethylamine	(4)	(5)		G or C	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	(4)	(5)		G or C	1/5 YR
86-30-6	N-Nitrosodiphenylamine	(4)	(5)		G or C	1/5 YR
129-00-0	Pyrene	625	10.0		G or C	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/5 YR
VOLATILES						
107-02-8	Acrolein	(4)	(5)		G	1/5 YR
107-13-1	Acrylonitrile	(4)	(5)		G	1/5 YR
71-43-2	Benzene	624	10.0		G	1/5 YR
75-25-2	Bromoform	624	10.0		G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5 YR
108-90-7	Chlorobenzene	624	50.0		G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5 YR
67-66-3	Chloroform	624	10.0		G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	(4)	(5)		G	1/5 YR
78-87-5	1,2-Dichloropropane	(4)	(5)		G	1/5 YR
542-75-6	1,3-Dichloropropene	(4)	(5)		G	1/5 YR
100-41-4	Ethylbenzene	624	10.0		G	1/5 YR
74-83-9	Methyl Bromide	(4)	(5)		G	1/5 YR
75-09-2	Methylene Chloride	624	20.0		G	1/5 YR

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DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER QUALITY MONITORING

OUTFALL NO. 001 – 28 MGD

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
79-34-5	1,1,2,2-Tetrachloroethane	(4)	(5)		G	1/5 YR
127-18-4	Tetrachloroethylene	624	10.0		G	1/5 YR
10-88-3	Toluene	624	10.0		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	(4)	(5)		G	1/5 YR
79-01-6	Trichloroethylene	624	10.0		G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5 YR
ACID EXTRACTABLES⁽⁶⁾						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/5 YR
51-28-5	2,4-Dinitrophenol	(4)	(5)		G or C	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	(4)	(5)		G or C	1/5 YR
104-40-51	Nonylphenol	(4)	(5)		G or C	1/5 YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/5 YR
108-95-2	Phenol	625	10.0		G or C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/5 YR
MISCELLANEOUS						
16887-00-6	Chloride	(4)	(5)		C	1/5 YR
57-12-5	Cyanide, Free	(4)	10.0		G	1/5 YR
7783-06-4	Hydrogen Sulfide	(4)	(5)		G or C	1/5 YR
60-10-5	Tributyltin ⁽⁷⁾	NBSR 85-3295	(5)		G or C	1/5 YR
471-34-1	Hardness (mg/L as CaCO ₃)	(4)	(5)		C	1/5 YR

 Name of Principal Exec. Officer or Authorized Agent/Title

 Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

- (1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

- (2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

- (3) A specific analytical method is not specified; however a target value for each metal has been established. An appropriate method to meet the target value shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136). If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

<u>Metal</u>	<u>Analytical Method</u>
Antimony	1638; 1639
Arsenic	1632
Chromium ⁽⁹⁾	1639
Cadmium	1637; 1638; 1639; 1640
Chromium VI	1639
Copper	1638; 1640
Lead	1637; 1638; 1640
Mercury	1631
Nickel	1638; 1639; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638; 1639

- (4) Any approved method presented in 40 CFR Part 136.
- (5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.
- (6) Testing for phenols requires continuous extraction.
- (7) Analytical Methods: NBSR 85-3295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].
- (8) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].
- (9) The lab may use SW846 Method 8270D provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270D.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of State waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into State waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such State waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon State waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter State waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter State waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect State waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on State waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1. or 2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H, and I may be made to the Department's Valley Regional Office at (540) 574-7800 (voice) or (540) 574-7878 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II.K.1.;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II.K.1. or 2. shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of Federal, State or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other State law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering State waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2. and U.3.

2. Notice

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

- a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II.U.2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I.; and
 - d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.